

Product datasheet for **RG234484**

OS9 (NM_001261421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OS9 (NM_001261421) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OS9
Synonyms:	ERLEC2; OS-9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234484 representing NM_001261421
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGGAAACGCTGCTGTCCAGTTTGTAGGACTGTGCTTCTGGGACTCCTGTTACCCGCAAGTC
 TGACCGCGGTGTGGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC
 GTTGCCTGTCATGGGAGGCAGAGCCAATCTTCGGACGTGGTATTGTCTCCTCTAAGTACAAAACAGCGC
 TATGAGTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGAAACCTGCTTACC
 AAGGGCCTGGGATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGTGAAGACAAAGGACTG
 GTGGACATATGAATTCTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGT
 GAAGTCTCTATCTCGGCTACTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGTCTCTGTG
 ACGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTGGACGAGCCCTTGCCTGCTTATATGTCT
 GACCATTGCACTCCTCGGCTCTGCCCCACCCTCTCCTCGGCCCCACCCAGTCTGCACCGCAGGCC
 ATCCTCTGTACCCCTCCCTACAGCCTGAGGAGTACATGGCCTACGTTACAGAGCAAGCCGTAGACTCAA
 AGCAGTATGGAGATAAAATCATAGAGGAGCTGCAAGATCTAGGCCCCCAAGTGTGGAGTGAGACCAAGTC
 TGGGGTGGCACCCAAAAGATGGCAGGTGCGAGCCGACCAAGGATGACAGTAAGGACTCAGATTTCTGG
 AAGATGCTTAATGAGCCAGAGGACCAGGCCCCAGGAGGGGAGGAGGTGCCGGCTGAGGAGCAGGACCCAA
 GCCCTGAGGCAGCAGATTAGCTTCTGGTGTCCCAATGATTTTCAGAACACGTGCAGGTCAAAGTCAT
 TCGAAGCCCTGCGGATTTGATTCGATTCATAGAGGAGCTGAAAGGTGGAACAAAAAGGGGAAGCCAAAT
 ATAGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCAGAGGGAACAGAGAAGGAAAGGGGTG
 ATCCAGAACCGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGATGAGGATGAGGATGAGGATGA
 ACGGCAGTTACTGGGAGAATTTGAGAAGGAACTGGAAGGGATCCTGCTTCCGTCAGACCGAGACCGGCTC
 CGTTCCGAGGTGAAGGCTGGCATGGAGCGGAACTGGAACATCATCCAGGAGACAGAGAAGAGCTGG
 ACCCAGATGGGCTGAAGAAGGAGTCAAGCGGGATCGGGCAATGCTGGCTCTCACATCCACTCTCAACAA
 ACTCATAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAAAGAGGTTGTC
 CCCAAAAGCCTCCCCATACCCCAACCTACAGGAAAATTGAGATCAAATTGTCCGCCATGGGCTG
 AAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAAAACCTCAAGGAGATCTTCTTCAA
 TATCTTGGTGCCGGGAGCTGAAGAGGCCAGAAGGAACGCCAGCGCAGAAAGAGCTGGAGAGCAATTAC
 CGCCGGGTGTGGGCTCTCCAGGTGGGAGGGCACAGGGGACCTGGACGAATTTGACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234484 representing NM_001261421
 Red=Cloning site Green=Tags(s)

MAAETLLSLLGLLLLLGLLLPASLTGGVGSNLNLEELSEMYGIEILPLPVMGGQSQSSDVVIVSSKYKQR
 YECRLPAGAIHFQREEREETPAYQGPPIPELLSPMRDAPCLLTKDWWTYEFYGRHIQQYHMEDSEIKG
 EVLYLGYYSQAFDWDDEAKFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTPRLCPHLLRPPPSAAPQA
 ILCHPSLQPEEYMAVYVQRQAVDSKQYGDKIIIEELQDLGPQVWSETKSGVAPQKMAGASPTKDDSKDSDFW
 KMLNEPEDQAPGGEEVPAEEQDPSPEAADSASGAPNDFQNNVQVKVIRSPADLIRFIEELKGGTKKGPKN
 IGQEQPVDAAEVPQREPEKERGDPERQREMEEEDEDEDEDEDERQLLGEFEKELEGILLPSDRDRL
 RSEVKAGMERELENIIQETEKELDPDGLKESERDRAMLALSTLNLKIKRLEEKQSPELVKKHKKRNV
 PKKPPSPQPTGKIEIKIVRPWAEGETEAGRWLTDTRNLKEIFFNILVPGAEAAQKERQRQKELESNY
 RRVWGSPPGEGTGDLDEFDF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001261421

ORF Size: 1740 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001261421.1](#), [NP_001248350.1](#)

RefSeq Size: 2634 bp

RefSeq ORF: 1743 bp

Locus ID: 10956

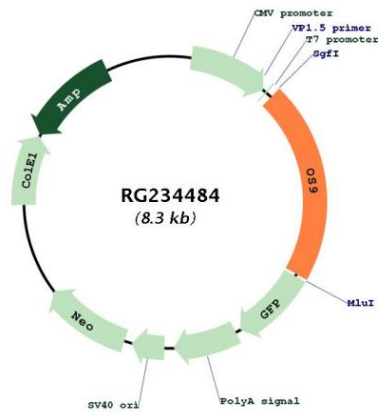
UniProt ID: [Q13438](#)

Cytogenetics: 12q13.3-q14.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein that is highly expressed in osteosarcomas. This protein binds to the hypoxia-inducible factor 1 (HIF-1), a key regulator of the hypoxic response and angiogenesis, and promotes the degradation of one of its subunits. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG234484